

REMARKS

Summary of Claim Status

Claims 1, 4, 6-11, 14, 17, 19, and 20 are pending in the present application after entry of the present amendment. Claims 1, 4, 6-11, 14, 17, 19 and 20 are rejected under 35 U.S.C. § 112, first paragraph, for failing to comply with the written description requirement. Claims 1- 4, 6-11, 14, 19 and 20 are rejected under 35 U.S.C. § 102(e) as being anticipated by Lin et al., U.S. Patent Application No. 2004/0174682 ("Lin"). Claim 17 is rejected under 35 U.S.C. § 103(a) as being obvious over Lin in view of Murayama et al. (U.S. 2001/0009302, "Murayama"). Applicants respectfully request favorable reconsideration of the claims and withdrawal of the pending rejections in view of the following discussion and attached declarations, which are believed to place the application in form for allowance.

Rejections under 35 U.S.C. § 112

In response to the rejection of the claims under 35 U.S.C. § 112, first paragraph, Applicants respectfully request reconsideration. It is suggested in the Office Action that the specification fails to describe how the heat sink is secured to the substrate in such a way that force is applied along the wall of the through-hole as set forth in the claims. However, Applicants respectfully submit that support for the amendment may be found at least in paragraph [0019] of the specification. In particular, the specification indicates that:

"While straight holes can be utilized as shown in Fig.1, the holes can be tapered in shape with the top generally larger in diameter to improve the adhesive affect of the through-hole. In particular, a conductive lid 302 comprises a through-hole 304 which is adjacent to a recess 306. The through-hole 304 preferably extends from the top 308 of the conductive lid to a foot portion 310. . . . The larger diameter at the top acts like the head of a screw or nail to prevent separation of the metal lid from the package."

Applicants respectfully submit that the specification clearly supports the amendments to the claims, and respectfully request reconsideration of the rejection of the claims under 35 USC § 112.

Rejections under 35 U.S.C. § 102

In response to the rejection of claims 1- 4, 6-11, 14, 19 and 20 as being anticipated by Lin, Applicants respectfully traverse the rejection with regard to all claims. Applicants submit declarations under 37 C.F.R. § 1.131 for each of the inventors and the attorney who prepared the present patent application. Applicants submit that the declarations establish the invention of the subject matter of the claims by Applicants prior to the filing date of Lin, and respectfully submit that the rejection of the claims should be withdrawn in view of the declarations.

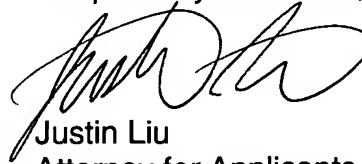
Rejections under 35 U.S.C. § 103

In response to the rejection of claim 17 as being obvious over Lin in view of Murayama, Applicants respectfully traverse the rejection of claim 17. Applicants submit that claim 17 is allowable for the same reason that claim 1 is believed allowable, and respectfully submit that the rejection should be withdrawn.

Conclusion

Applicants respectfully request reconsideration of the rejections in view of the above remarks and attached declarations. If any action other than allowance is contemplated by the Examiner, the Examiner is invited to telephone Applicants' attorney at 408-879-4641.

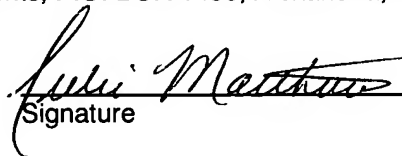
Respectfully submitted,



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I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. BOX 1450, Alexandria, VA 22313-1450, on August 18, 2006.

Julie Matthews
Name


Signature